## Amendments In the Claims

- 1. (Currently Amended) A method for restoring a path in a communication system between zones comprising:
  - establishing an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
  - identifying an inter-zone link failure between the source zone and the adjacent destination zone;
  - identifying a pre-planned alternative route, where the pre-planned alternative route

    meets class of service requirements between the source zone and the adjacent destination zone;

informing a node in the adjacent destination zone of the pre-planned alternative route; informing a node in the source zone of the pre-planned alternative route; and providing communication between the adjacent destination zone and the source zone via the pre-planned alternative route.

- 2. (Previously Presented) The method of claim 1 further comprising: routing the pre-planned alternative route through a transit zone.
- 3. (Original) The method of claims 2 further comprising: requesting new paths to be established between zones.
- 4. (Previously Presented) The method of claim 3 wherein the pre-planned alternative route is configured based on class of service requirements.
- 5. (Previously Presented) The method of claim 2 wherein the pre-planned alternative route is configured based on class of service requirements.
  - 6. (Original) The method of claim 1 further comprising: establishing new paths to be established between zones.
- 7. (Previously Presented) The method of claim 6 wherein the pre-planned alternative route is configured based on class of service requirements.

- 8. (Previously Presented) The method of claim 1 wherein the pre-planned alternative route is configured based on class of service requirements.
- 9. (Currently Amended) A network element configured to restore a path in a communication system comprised of:

a processor configured to:

- establish an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
- identify an inter-zone link failure between the source zone and the adjacent destination zone;
- identify a pre-planned alternative route, where the pre-planned alternative

  route meets class of service requirements between the source zone and
  the adjacent destination zone;
- inform a node in the adjacent destination zone of the pre-planned alternative route;
- inform a node in the source zone of the pre-planned alternative route; and provide communication between the adjacent destination zone and the source zone via the pre-planned alternative route.
- 10. (Previously Presented) The network element of claim 9 wherein the processor is further configured to:

route the pre-planned alternative route through a transit zone.

11. (Original) The network element of claim 10 wherein the processor is further configured to:

request new paths to be established between zones.

- 12. (Previously Presented) The network element of claim 11 wherein the preplanned alternative route is configured based on class of service requirements.
- 13. (Previously Presented) The network element of claim 10 wherein the preplanned alternative route is configured based on class of service requirements.

14. (Original) The network element of claim 9 wherein the processor is further configured to:

establish new paths to be established between zones.

- 15. (Previously Presented) The network element of claim 14 wherein the preplanned alternative route is configured based on class of service requirements.
- 16. (Previously Presented) The network element of claim 9 wherein the preplanned alternative route is configured based on class of service requirements.
  - 17. (**Currently Amended**) A computer system comprising: a processor;
  - a computer readable medium coupled to the processor; and computer code, encoded in the computer readable medium, configured to cause the processor to:
    - establish an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
    - identify an inter-zone link failure between the source zone and the adjacent destination zone;
    - identify a pre-planned alternative route, where the pre-planned alternative

      route meets class of service requirements between the source zone and
      the adjacent destination zone;
    - inform a node in the adjacent destination zone of the pre-planned alternative route;
    - inform a node in the source zone of the pre-planned alternative route; and provide communication between the adjacent destination zone and the source zone via the pre-planned alternative route.
- 18. (Previously Presented) The computer system of claim 17 wherein the computer code is further configured to cause the processor to:

route the pre-planned alternative route through a transit zone.

19. (Original) The computer system of claim 18 wherein the computer code is further configured to cause the processor to:

request new paths to be established between zones.

- 20. (Previously Presented) The computer system of claim 19 wherein the preplanned alternative route is configured based on class of service requirements.
- 21. (Previously Presented) The computer system of claim 18 wherein the preplanned alternative route is configured based on class of service requirements.
- 22. (Original) The computer system of claim 17 wherein the computer code is further configured to cause the processor to:

establish new paths to be established between zones.

- 23. (Previously Presented) The computer system of claim 22 wherein the preplanned alternative route is configured based on class of service requirements.
- 24. (Previously Presented) The computer system of claim 17 wherein the preplanned alternative route is configured based on class of service requirements.
- 25. (**Currently Amended**) An apparatus for restoring a path in a communication system comprising:
  - means for establishing an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
  - means for identifying an inter-zone link failure between the source zone and the adjacent destination zone;
  - means for identifying a pre-planned alternative route, where the pre-planned

    alternative route meets class of service requirements between the source zone
    and the adjacent destination zone;
  - means for informing a node in the adjacent destination zone of the pre-planned alternative route
  - means for informing a node in the source zone of the pre-planned alternative route; and

means for providing communication between the adjacent destination zone and the source zone via the pre-planned alternative route.

26. (Previously Presented) The apparatus for restoring a path in a communication system of claim 25 further comprising:

means for routing the pre-planned alternative route through a transit zone.

27. (Original) The apparatus for restoring a path in a communication system of claim 26 further comprising:

means for requesting new paths to be established between zones.

- 28. (Previously Presented) The apparatus for restoring a path in a communication system of claim 27 wherein the pre-planned alternative route is configured based on class of service requirements.
- 29. (Previously Presented) The apparatus for restoring a path in a communication system of claim 26 wherein the pre-planned alternative route is configured based on class of service requirements.
- 30. (Original) The apparatus for restoring a path in a communication system of claim 25 further comprising:

means for establishing new paths to be established between zones.

- 31. (Previously Presented) The apparatus for restoring a path in a communication system of claim 30 wherein the pre-planned alternative route is configured based on class of service requirements.
- 32. (Previously Presented) The apparatus for restoring a path in a communication system of claim 25 wherein the pre-planned alternative route is configured based on class of service requirements.

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- 33. (Currently Amended) A computer program product, encoded in computer readable media, comprising:
  - a first set of instructions, executable on a computer system, configured to establish an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
  - a second set of instructions, executable on the computer system, configured to identify an inter-zone link failure between the source zone and the adjacent destination zone;
  - a third set of instructions, executable on the computer system, configured to identify a pre-planned alternative route, where the pre-planned alternative route meets class of service requirements between the source zone and the adjacent destination zone;
  - a fourth set of instructions, executable on the computer system, configured to inform a node in the adjacent destination zone of the pre-planned alternative route;
  - a fifth set of instructions, executable on the computer system, configured to inform a node in the source zone of the pre-planned alternative route; and
  - a sixth set of instructions, executable on the computer system, configured to provide communication between the adjacent destination zone and the source zone via the pre-planned alternative route.
- 34. (Previously Presented) The computer program product of claim 33, encoded in computer readable media, further comprising:
  - a seventh set of instructions, executable on the computer system, configured to provide routing the pre-planned alternative route through a transit zone.
- 35. (Original) The computer program product of claim 34, encoded in computer readable media, further comprising:
  - an eighth set of instructions, executable on the computer system, configured to request new paths to be established between zones.
- 36. (Previously Presented) The computer program product of 35 wherein the preplanned alternative route is configured based on class of service requirements.

- 37. (Previously Presented) The computer program product of 34 wherein the preplanned alternative route is configured based on class of service requirements.
- 38. (Previously Presented) The computer program product of claim 33, encoded in computer readable media, further comprising:
  - a seventh set of instructions, executable on the computer system, configured to establish new paths to be established between zones.
- 39. (Previously Presented) The computer program product of 38 wherein the preplanned alternative route is configured based on class of service requirements.
- 40. (Previously Presented) The computer program product of 33 wherein the preplanned alternative route is configured based on class of service requirements.
- 41. (Currently Amended) The method of claim 1 further comprising: A method for restoring a path in a communication system between zones comprising:
  - establishing an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
  - identifying an inter-zone link failure between the source zone and the adjacent destination zone;

identifying a pre-planned alternative route;

informing a node in the adjacent destination zone of the pre-planned alternative route; informing a node in the source zone of the pre-planned alternative route;

providing communication between the adjacent destination zone and the source zone
via the pre-planned alternative route;

- identifying an intra-zone failure within at least one of said source zone and said adjacent destination zone; and
- dynamically identifying an alternative route using a distributed restoration process associated with said at least one of said source zone and said adjacent destination zone.

- 42. (Previously Presented) The network element of claim 9 wherein the processor is further configured to:
  - identify an intra-zone failure within at least one of said source zone and said adjacent destination zone; and
  - dynamically identify an alternative route using a distributed restoration process.
- 43. (Previously Presented) The computer system of claim 17 wherein the computer code is further configured to cause the processor to:
  - identify an intra-zone failure within at least one of said source zone and said adjacent destination zone; and
  - dynamically identify an alternative route using a distributed restoration process.
- 44. (Currently Amended) The apparatus for restoring a path in a communication system of claim 25 further comprising: An apparatus for restoring a path in a communication system comprising:
  - means for establishing an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone;
  - means for identifying an inter-zone link failure between the source zone and the adjacent destination zone;
  - means for identifying a pre-planned alternative route;
  - means for informing a node in the adjacent destination zone of the pre-planned alternative route
  - means for informing a node in the source zone of the pre-planned alternative route;

    means for providing communication between the adjacent destination zone and the

    source zone via the pre-planned alternative route;
  - means for identifying an intra-zone failure within at least one of said source zone and said adjacent destination zone; and
  - means for dynamically identifying an alternative route using a distributed restoration process.

- 45. (Previously Presented) The computer program product of claim 33, encoded in computer readable media, further comprising:
  - a seventh set of instructions, executable on the computer system, configured to identify an intra-zone failure within at least one of said source zone and said adjacent destination zone; and
  - an eighth set of instructions, executable on the computer system, configured to dynamically identify an alternative route using a distributed restoration process.
- 46. (New) A method for restoring a path in a communication system between zones comprising:
  - establishing an inter-zone link with a first border node of a source zone with a second border node of an adjacent destination zone, wherein the source zone and the adjacent destination zone execute separate copies of a topology distribution algorithm;
  - identifying an inter-zone link failure between the source zone and the adjacent destination zone;

identifying a pre-planned alternative route;

informing a node in the adjacent destination zone of the pre-planned alternative route; informing a node in the source zone of the pre-planned alternative route; and providing communication between the adjacent destination zone and the source zone via the pre-planned alternative route.